

What is claimed:

1. A method of operating an atmospheric pressure plasma chamber comprising the  
5 steps of:

coupling an r.f. power supply through a coaxial transmission line to a suitably  
designed tuning network;

coupling a gas manifold to the plasma chamber; and then increasing the r.f.  
power to produce a plasma in an oxygen mixture gas; exposing thick-film polymeric  
10 resistors to this plasma and thus trimming them to a desired value.

- ~~2. A method of operating an atmospheric pressure plasma chamber comprising the  
steps of:~~

~~coupling an r.f. power supply through a coaxial transmission line to a suitably  
15 designed tuning network;~~

~~coupling a gas manifold to the plasma chamber; and then increasing the r.f.  
power to produce a plasma in an oxygen mixture gas; exposing parts to the plasma  
thereby sterilizing said parts.~~

- 20 3. A method of operating an atmospheric pressure plasma chamber comprising the  
steps of:

coupling an r.f. power supply through a coaxial transmission line to a suitably  
designed tuning network;

coupling a gas manifold to the plasma chamber; and then increasing the r.f.  
25 power to produce a plasma in an oxygen mixture gas; exposing fiber optic cables to the  
plasma, thereby etching off polyimide from the fiber optic cables.

4. A method of operating an atmospheric pressure plasma chamber comprising the steps of:

coupling an r.f. power supply through a coaxial transmission line to a suitably designed tuning network;

5 coupling a gas manifold to the plasma chamber; and then increasing the r.f. power to produce a plasma in an oxygen mixture gas; exposing glass to the plasma thereby cleaning off organic residue from the glass.

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